



## APPLICATION FORM

All applications must include the following information. Separate applications must be submitted for each eligible program. **Deadline: June 1, 2016.** Please include this application form with electronic entry.

### PROGRAM INFORMATION

County: \_\_\_\_\_

Program Title: \_\_\_\_\_

Program Category: \_\_\_\_\_

### CONTACT INFORMATION

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Department: \_\_\_\_\_

Complete Mailing Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Website: \_\_\_\_\_

Email: \_\_\_\_\_

### SIGNATURE OF COUNTY ADMINISTRATOR OR CHIEF ADMINISTRATIVE OFFICER

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

## **THE PROBLEM OR CHALLENGE**

The County has embraced web-based location technology to help manage a variety of government services, including access to crime data. The County's Police Department was looking for an efficient way to share and analyze crime data and the existing GIS infrastructure offered the foundation for an interactive, web based application. The GIS Services Division in the Communications and Information Technology Department worked closely with the Police Department to deploy an efficient solution that would leverage their investment in the Esri platform which would be consistent with other County applications.

In today's economic climate, localities are tasked with doing more with less staff and declining budgets. PoliceView application helps address this constraint by reducing administrative overhead while maximizing data delivery and access for both citizens and staff. Questions that had previously required input from technical staff can now be tackled independently and quickly, creating efficiencies for staff and citizen users alike. PoliceView application makes crime data quickly accessible, with quality printed products available for both citizens and staff. Staff and citizens can get data quickly, make smarter choices, and develop new solutions faster.

## **SOLUTION**

The team began by implementing an early version of the Basic Viewer template which was renamed and branded as PoliceView, a JavaScript based application developed by

Esri. PoliceView provides the general public and other interested parties important information about select Police activity in their neighborhood for the past 30 days.

The PoliceView app provides the ability for both County staff and citizens or professionals to locate crime activity surrounding a targeted location. The target audience for the solution is diverse and includes citizens of all ages.

The County developed an automated solution to prepare the underlying data by extracting the crime data from the Computer Aided Dispatch (CAD) System. A scripted process to assign spatial representation using the street centerlines was performed to protect citizen's identity. The GIS Team then took the standard application a step further by introducing a style consistent with the Department's branding standard and incorporating custom behavior into the application to accommodate local functional requirements.

Through a combination of out-of-the-box functionality and customization, the final solution now provides accurate, up-to-date Police activity information that allows end users to self-serve the recent crime activity process for their neighborhood. Ultimately, the customized app reduces the need for time-consuming, manual processes by spatially enabling data from the Computer Aided Dispatch (CAD) System and facilitating access through a user friendly, interactive, web application. In addition, PoliceView is optimized to be mobile friendly for use on smartphones and tablets and is accessible to a wide array of modern desktop and mobile internet browsers.

## **FINANCIAL and STAFFING**

County of Roanoke has a Small Government Enterprise License Agreement with Esri. This gives the county the ability to fast track GIS projects in-house. The ELA provides unlimited access to ArcGIS software along with timely and professional assistance from Esri. Microsoft SQL Server 2012 is the Enterprise Database providing a consistent programming model and common tools across the Enterprise. The County has established a web presence that caters to a broad user base with diverse needs and technological capability. The application was largely designed with a singular focus, which creates a comfortable environment that doesn't require instruction or training. To achieve this, the applications were developed with contemporary methods and designed according to the asynchronous module definition (AMD) and Model View View Model (MVVM) patterns leveraging Knockout JS and Twitter Bootstrap libraries. This approach creates a solution that is easily maintained in-house while taking advantage of other commercial technologies that already exist. As a result, the County can deliver rich content based on Esri's ArcGIS for Server and ArcGIS Online offerings.

The GIS Infrastructure is a large investment. The County of Roanoke leverages VMware to reduce capital and operational costs by increasing energy efficiency and using less hardware with server consolidation. Virtualization technology increases efficiency in our data center by enabling today's x86 servers to run multiple operating systems and applications. Workloads get deployed faster, performance and availability increases and

operations become automated, resulting in IT that's simpler to manage and less costly to own and operate. Fortunately, the total cost of GIS infrastructure including disaster resiliency is \$0 Cost because we were able to take advantage of our existing infrastructure.

The greatest investment in this project comes from personnel hours devoted to this project. The hours were used to support the enterprise approach and design, develop, and maintain the enterprise GIS resources. A total of 229 County of Roanoke personnel hours was used to complete this project for a cost of approximately \$6,870 used to design, develop and support this project.

The county's Police Department uses the new tools to provide a safe community through data-driven policing, collaborative regional efforts, and public education initiatives. Now it only takes one mouse click to access crime data for the past 30 days for your neighborhood.

The county's new customized application can be accessed at the following link:

<http://PoliceView.roanokecountyva.gov>.

## **OVERVIEW**

In 2015, the Communications and Information Technology and Police Departments partnered together to create PoliceView. PoliceView provides the general public and

other interested parties with important information about select Police activity in their neighborhood for the past 30 days.

The innovative PoliceView application is interactive, user friendly and helps citizens search for police activity surrounding a location. The application provides the public with police activity in their neighborhood for the past 30 days. The goal of this application is to empower citizens by providing crime information specific to their neighborhoods.

PoliceView was developed to support the Police Departments Data Driven approach to policing to maintain a safe community. The police data is updated daily to keep the citizens informed with the most up to date information. In addition, PoliceView is optimized to be mobile friendly for use on smartphones and tablets and is accessible to a wide array of modern desktop and mobile internet browsers.

The citizens uses the new application daily to visualize police activity geographically by address and through a GIS-enabled interface. The app also allows the Department to share information using Email, Twitter, Google Plus and Facebook or embedded URL.

#### **BRIEF SUMMARY**

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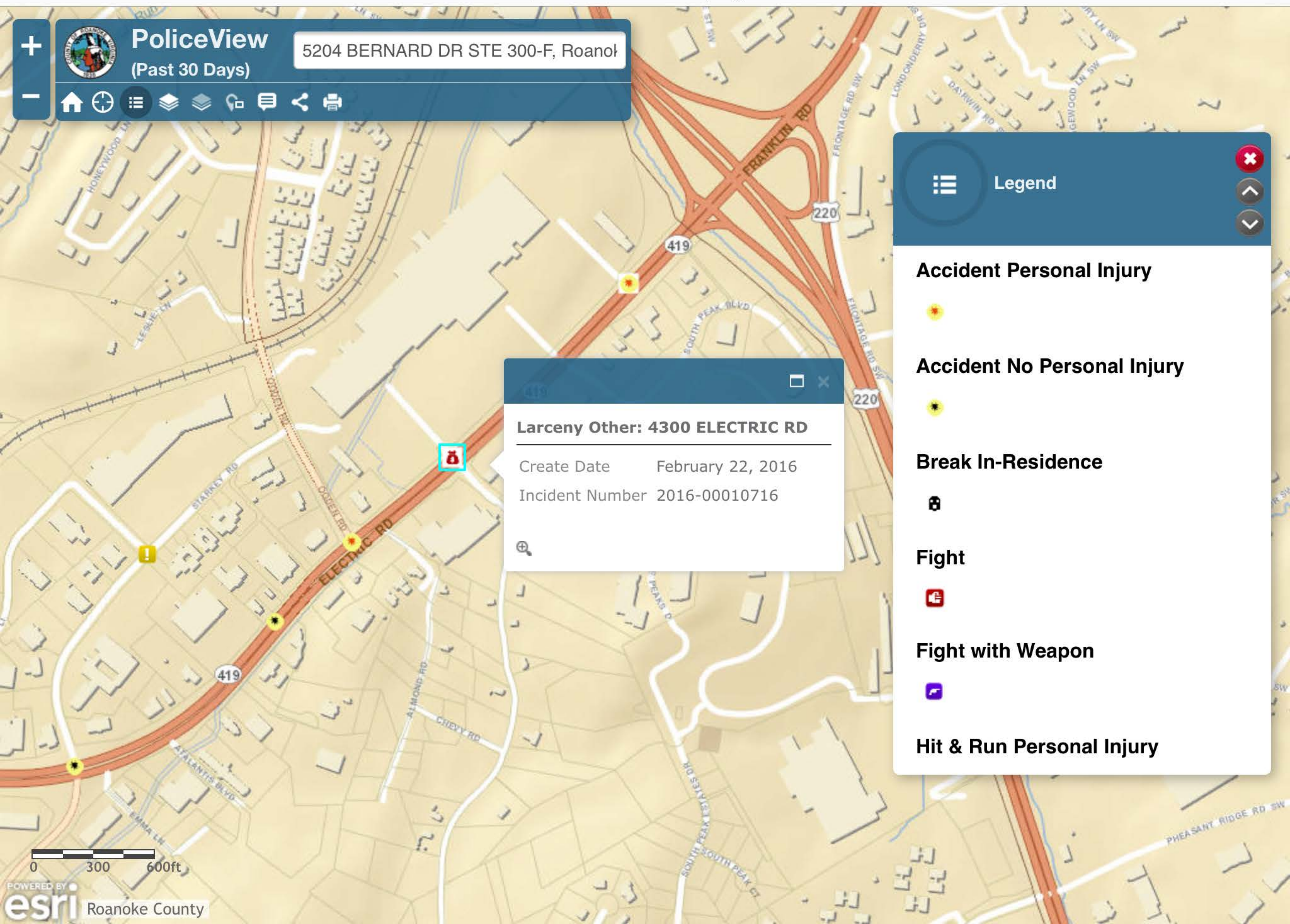
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**PoliceView**  
(Past 30 Days)

5204 BERNARD DR STE 300-F, Roanoke



**Larceny Other: 4300 ELECTRIC RD**

Create Date February 22, 2016  
Incident Number 2016-00010716

**Legend**

- Accident Personal Injury
- Accident No Personal Injury
- Break In-Residence
- Fight
- Fight with Weapon
- Hit & Run Personal Injury

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